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16 FEB 1962

MEMORANDUM FOR: Chief, Development Branch, DPD

SUBJECT: Communications/Navigation Equipment for A-12 Vehicle

REFERENCE: Secret IAC Report No. SP-326, dated 13 November 1961;  
subject: "Communication, Navigation and Rendezvous  
Aids" (A-12).

\*USAF Declass/Release Instructions On File\*

1. Referenced report proposes the following Communications/  
Navigation equipment for the A-12 Vehicle:

<u>Equipment</u>	<u>Use</u>
a. ARC-50	Normal UHF voice communications plus secure communications mode for use in aerial refueling including DME capability
b. DF-301	UHF/DF for rendezvous bearing information
c. 618T-3	Single Side Band Communications
d. ARC-15F	Omni receiver for VOR Navigation and terminal let down aid
e. ARN-41C	ADF navigation and emergency let down aid

2. Not included in referenced proposal are provisions for an SIF installation in the A-12. SIF Equipment is considered essential for secure identification whenever interrogated by NORAD ground stations whereby radar suppression and "hold-down" procedures can be implemented. It is understood that space limitations prevent the SIF installation concurrently with the other equipment noted in paragraph 1. alone. However,  has reported that the SSB installation could be designed to permit interchangeability with the SIF as required. This would provide for using the SSB on operational missions and the SIF on extended test/training flights when NORAD suppression is required.

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*Racil - believe we have this in our files already. destroy*

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3. It is recommended that:

a. The equipment noted in paragraph 1. above be installed in the A-12 vehicle providing that the following conditions are satisfied:

(1) The ARC-50 system is proven acceptable thru flight testing.

(2) The ARC-50 installation is feasible in the KC-135 aircraft.

b. The SSB installation is designed to permit interchangeability with the SIF equipment as required.

c. SIF equipment be programmed for all A-12 aircraft.

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Chief, Special Projects Branch, DPD

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CONCUR:

[Redacted Signature]

STANLEY W. BEERLI  
Colonel USAF  
Acting Chief, DPD-DD/P

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CC: AC/DPD  
DPD/DE  
DPD/COMMO

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